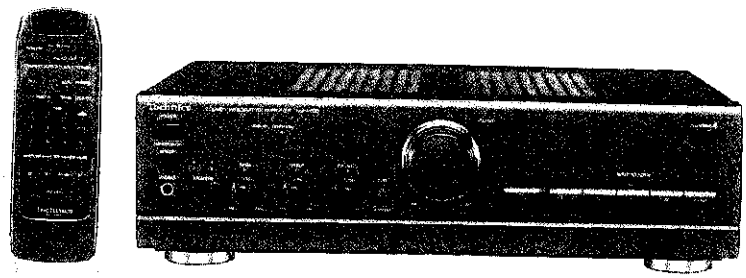
Technics®

Stereo Integrated Amplifier

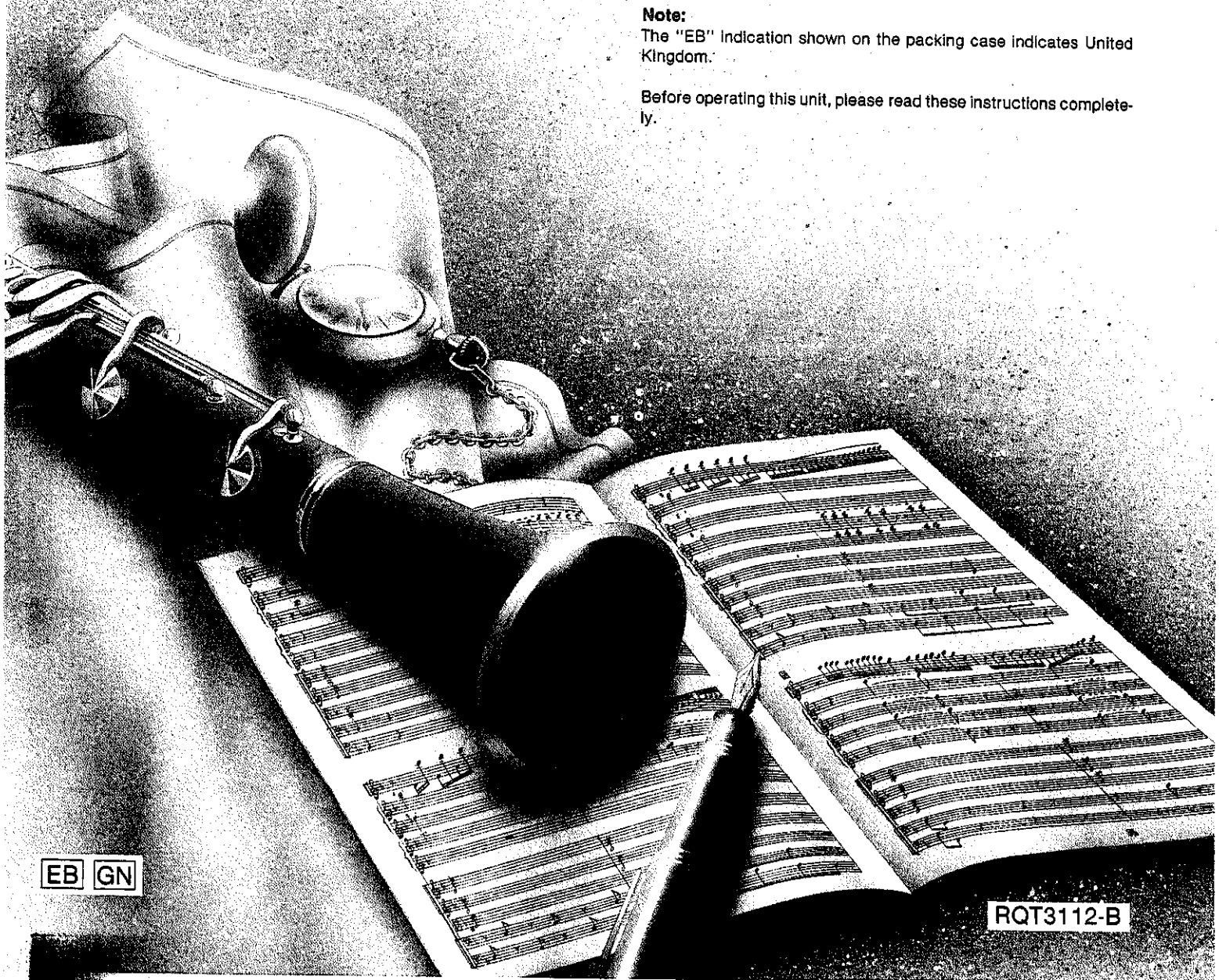
SU-V620

Operating Instructions



Note:
The "EB" indication shown on the packing case indicates United Kingdom.

Before operating this unit, please read these instructions completely.



EB GN

RQT3112-B

Dear Customer

Thank you for purchasing this Technics product.
For optimum performance and safety, please read these instructions carefully.

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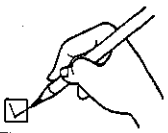
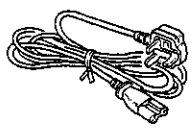
Accessories



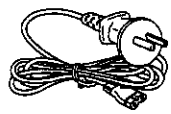
Please check and identify the supplied accessories.

☐ AC power supply cord 1

(For United Kingdom) **(For Australia and N.Z.)**

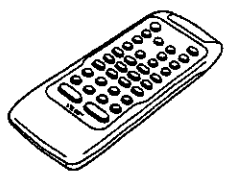


(VJA0733)



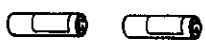
(RJA0036-K)

☐ Remote control transmitter 1



(RAK-SU129WH)

☐ Batteries 2



(UM-4, "AAA", R03)

Use numbers indicated in parentheses when asking for replacement parts.

Caution for AC mains lead

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ⓚ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

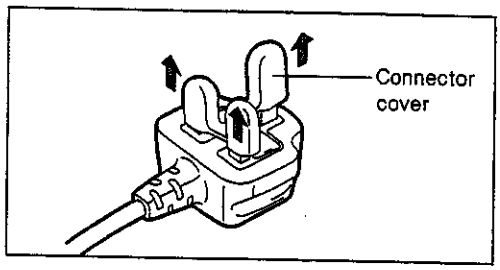
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚ .

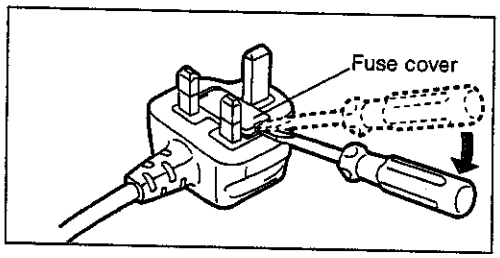
Before use

Remove the connector cover as follows.

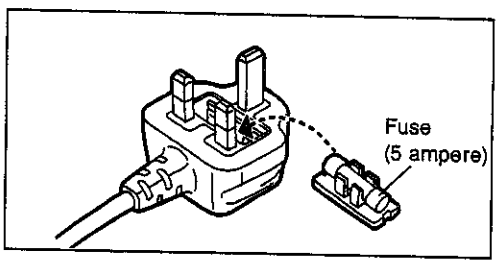


How to replace the fuse

1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



Suggestions for safety

Placement

Avoid placing the unit in areas of:
- direct sunlight
- high temperature
- high humidity
- excessive vibration
- uneven surfaces (Place the unit on a flat level surface.)

Such conditions might damage the cabinet and/or other component parts and thereby shorten the unit's service life.

Ventilation

- Place the unit in a well ventilated position at least 10 cm away from wall surfaces etc.
- Ensure that curtains and similar materials do not obstruct the ventilation holes.

Stacking

Never place heavy items on top of the unit or the power cord.

Voltage

- It is very dangerous to use an AC power source of high voltage such as for an air conditioner.
  A fire might be caused by such a connection.
- A DC power source can not be used.
  Be sure to check the power source carefully, especially on a ship or other place where DC is used.

Power cord protection

- Avoid cuts, scratches or poor connection of the AC mains cord, as this may result in fire or electric shock hazard.
  Excessive bending, pulling or slicing of the cord should also be avoided.
- Do not pull on the cord when you are disconnecting the power, as this could cause an electric shock. Grasp the plug firmly when you disconnect the power supply.
- Never touch the plug with wet hands or a serious electric shock could result.

Foreign materials

- Ensure that no foreign objects, such as needles, coins, screwdrivers etc., accidentally fall into the unit or through the ventilation holes.
  Otherwise, a serious electric shock or malfunction could occur.
- Be extremely careful about spilling water or liquid on/into the unit, as a fire or electric shock could occur.
  (Disconnect the power plug and contact your dealer immediately if this occurs.)
- Avoid spraying insecticides onto the unit as they contain flammable gases which can be ignited.
- Insecticides, alcohol, paint thinner and similar chemicals should never be used to clean the unit as they can cause flaking or cloudiness to the cabinet finish.

Maintenance

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution.

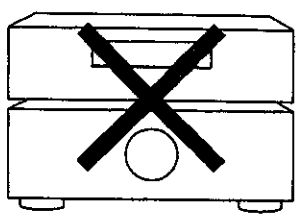
Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Service

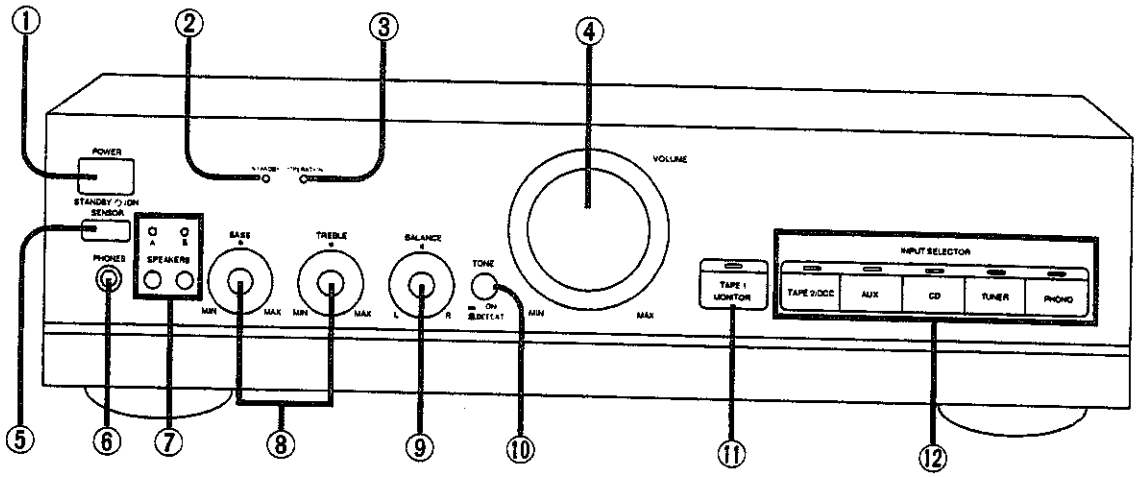
- Never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem.
  A serious electric shock could result if you ignore this precautionary measure.
- If a problem occurs during operation (the sound is interrupted, indicators fail to illuminate, smoke is detected, etc) contact your dealer or Authorized Service Center immediately.
- Disconnect the power supply if the unit will not be used for a long time. Otherwise the operation life could be shortened.

CAUTION

Do not place a tape deck or CD player on top of this unit.
Heat radiated from the top of this unit may cause damage to the tape or CD software.



Front panel controls



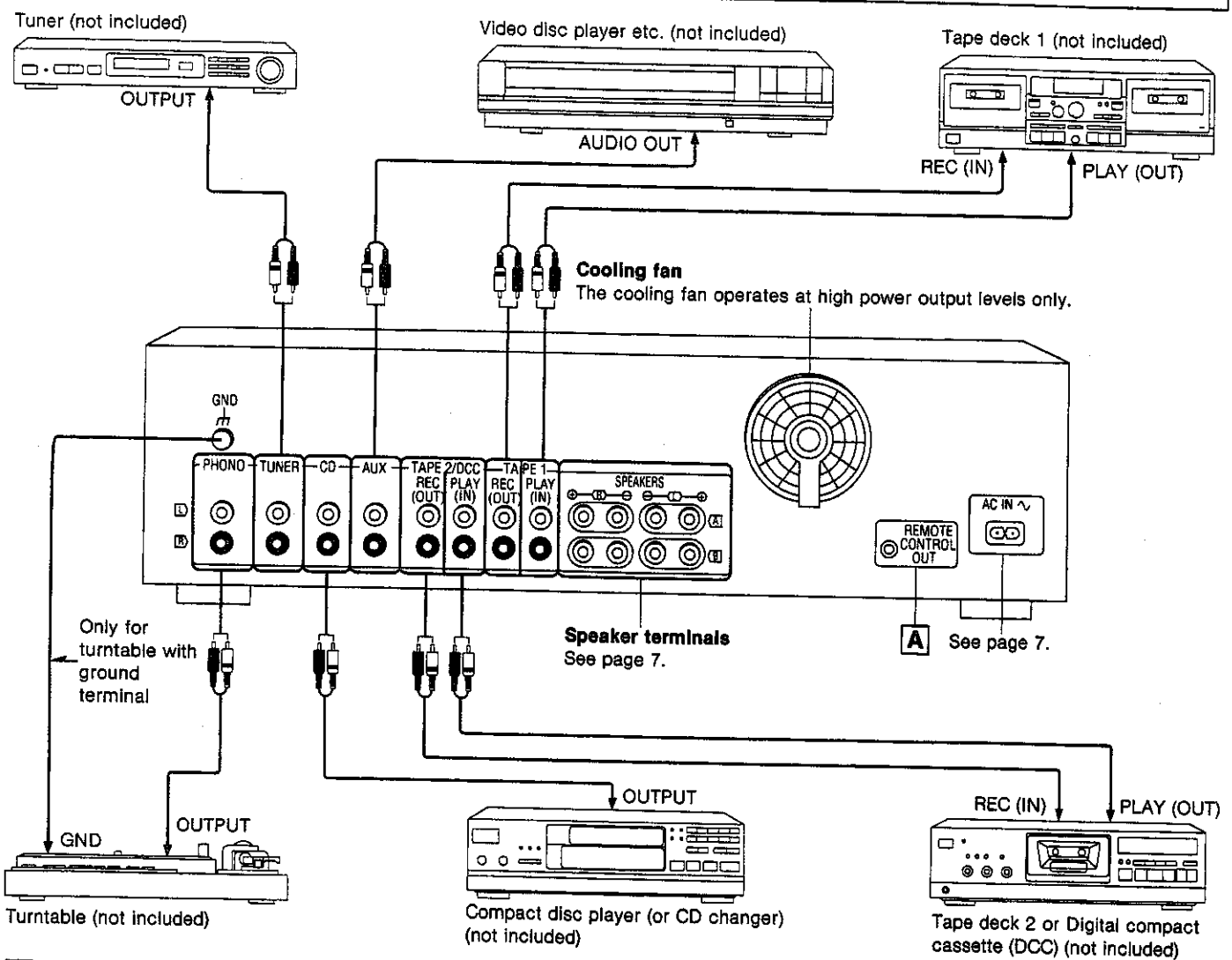
No.	Name	Ref. page
①	**Power "STANDBY ⏻/ON" switch (POWER, STANDBY ⏻/ON)** Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.	*8*
②	**"STANDBY" indicator (STANDBY)** When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.	–
③	**Operation indicator (OPERATION)** When the power is switched ON, this indicator illuminates after about 2 seconds when the unit is in the operating condition. If an abnormal condition in the circuitry is detected, such as a short-circuit of the positive (+) and negative (−) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate.	–
④	**Volume control (VOLUME)**	*8*
⑤	**Remote control signal sensor (SENSOR)** Receives the signals from the remote control.	*11*
⑥	**Headphones jack (PHONES)**	*9*

No.	Name	Ref. page
⑦	**Speaker select buttons/indicators (SPEAKERS)**	*8*
⑧	**Tone controls (BASS/TREBLE)**	*9*
⑨	**Balance control (BALANCE)**	*9*
⑩	**Tone control button (TONE)**	*9*
⑪	**TAPE 1 MONITOR button/indicator (TAPE 1 MONITOR)**	*8,10*
⑫	**Input select buttons/indicators (INPUT SELECTOR)**	*8,10*

To connect to each terminal

Make connections to each component in the system by using stereo connection cables (not included).

Stereo connection cable White (L) / Red (R)



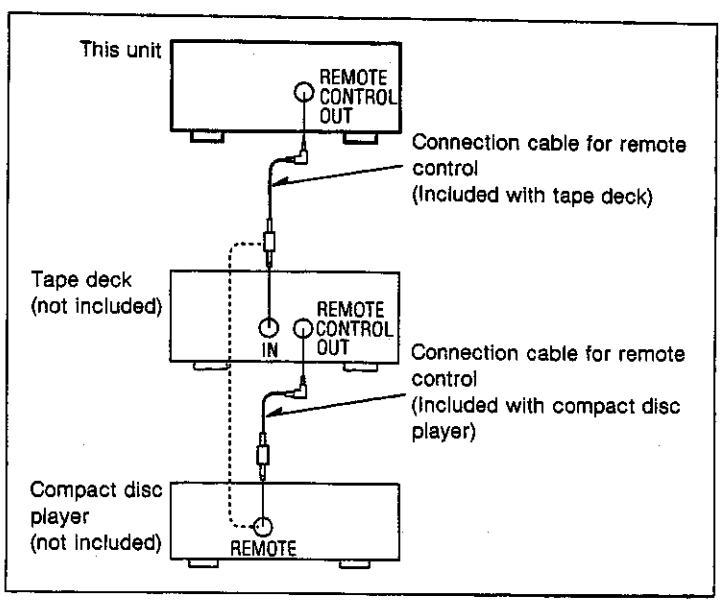
A "REMOTE CONTROL OUT" terminal

Connect the connection cable for the remote control to a Technics tape deck and/or CD player (or CD changer) which has the appropriate remote control terminal as shown at the right.

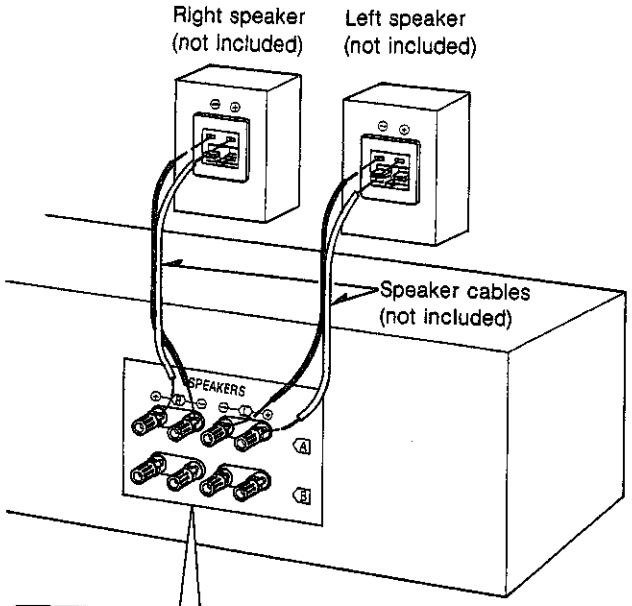
If a tape deck is not being used, the CD player (or CD changer) can be connected directly (dotted line).

Note

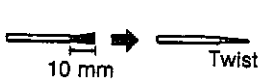
For a tape deck and/or CD player (or CD changer) with a remote control sensor, this connection is not necessary.



To connect the speakers



① Strip off the outer covering, and twist the center conductor.



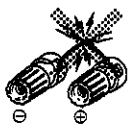
② Turn completely to the left.

③ Insert the wire and turn completely to the right. Pull the cord to assure a proper connection.

Note Be sure to only connect positive (+) cords to positive (+) terminals, and negative (−) cords to negative (−) terminals.

Note

To prevent damage to circuitry, never short-circuit the positive (+) and negative (−) speaker wires.



■ "B" terminals

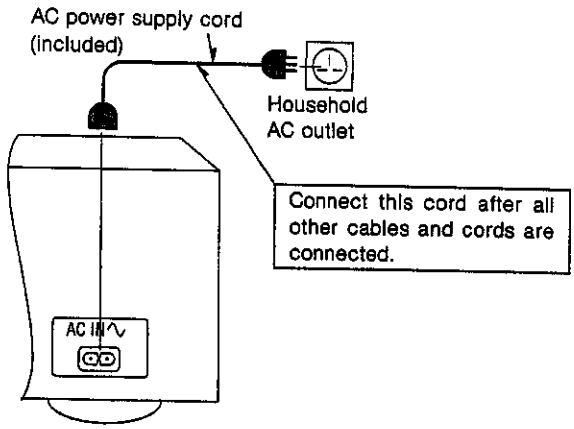
For connection to a second pair of speakers.

■ Speaker impedance

- When only the "A" or only the "B" terminals are used: 4−16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8−16 ohms

To connect the AC power supply cord

(For United Kingdom only)
BE SURE TO READ THE CAUTION FOR THE AC POWER SUPPLY CORD ON PAGE 3 BEFORE CONNECTING THE AC POWER SUPPLY CORD.

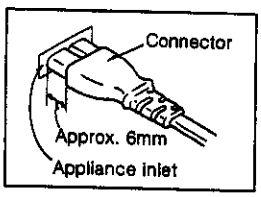


Note

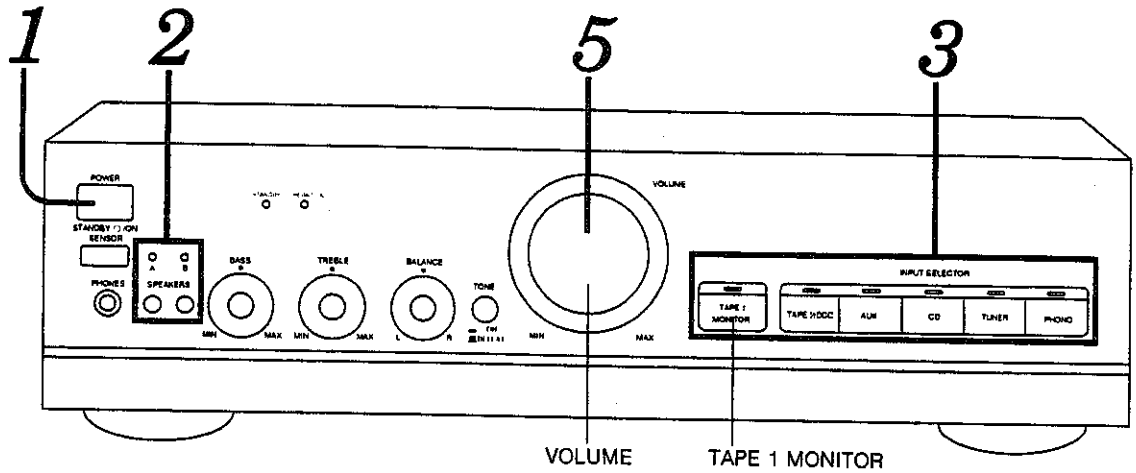
The configuration of the AC inlet, AC outlet and AC power supply cord differ according to area.

(For United kingdom only)
Insertion of Connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.



Listening to sound



Before operation, set VOLUME to the "MIN" position.

1 POWER

Press POWER to switch on the power.

2 A B SPEAKERS

Press A and/or B to select the speaker system(s) to be used.

A and B refer to the speaker terminals at the rear of the unit.

The corresponding indicator above will illuminate to indicate which speaker system is selected.

A: Sound can be heard from the speakers connected to the "A" terminals.

B: Sound can be heard from the speakers connected to the "B" terminals.

A and B: Sound can be heard simultaneously from the speakers connected to the "A" terminals and the "B" terminals.

off: No sound will be heard from the speakers. (Both indicators will turn off.)

3 TAPE 1 MONITOR | TAPE 2/DCC | PHONO

Press to select the desired source.

The corresponding indicator above will illuminate to indicate which button is selected.

TAPE 1 MONITOR: To listen to tape (TAPE 1). The tape monitor indicator will illuminate. (See below.)

TAPE 2/DCC: To listen to tape (TAPE 2) or digital compact cassette (DCC).

AUX: To listen to equipment connected to the "AUX" terminals.

CD: To listen to compact discs.

TUNER: To listen to radio broadcasts.

PHONO: To listen to phono discs.

4

Start the desired source.

(Refer to the appropriate operating instructions for details.)

5 VOLUME MIN MAX

Turn VOLUME to adjust the volume level.

After listening is finished

Be sure to reduce the volume level, and turn the unit off by pressing POWER.

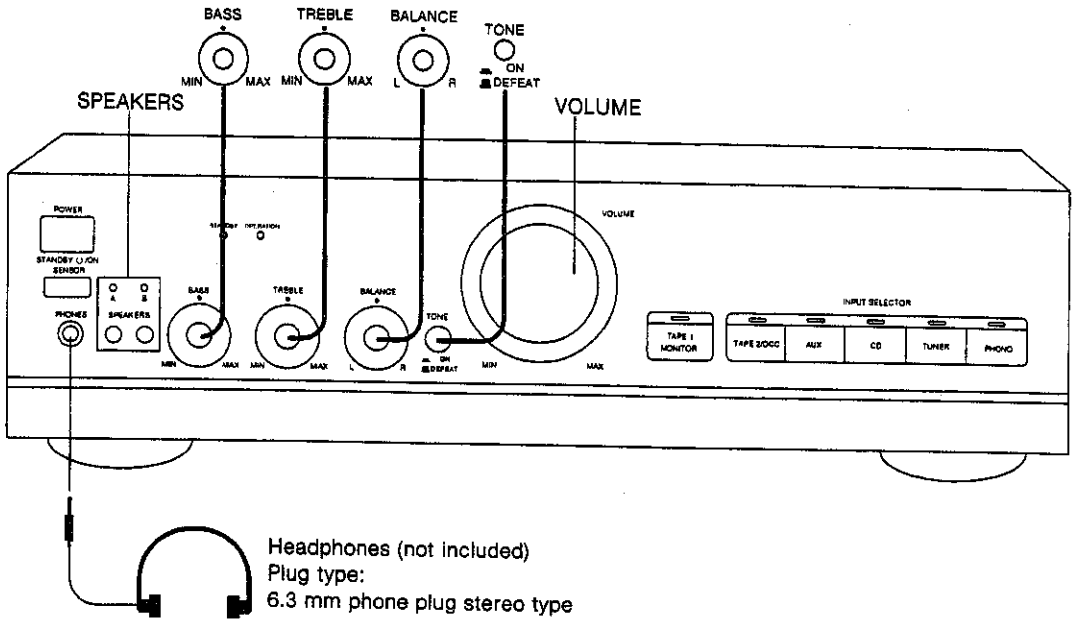
When tape 1 monitor indicator illuminates

Illuminates

TAPE 1 MONITOR

This indicates that the tape monitor function of this unit is ON.

To listen to sources other than a tape (TAPE 1), be sure to turn off the indicator by pressing TAPE 1 MONITOR.



Headphones (not included)
Plug type:
6.3 mm phone plug stereo type

To adjust the tone quality

TONE

ON
DEFEAT

Set TONE to the " ON" position.

BASS

MIN MAX

Turn BASS to adjust the low-frequency sound.

TREBLE

MIN MAX

Turn TREBLE to adjust the high-frequency sound.

If listening without adjusting the tone quality, press TONE so that it is at the " DEFEAT" position.

To adjust the sound balance

BALANCE

L R

Turn BALANCE to adjust the left/right sound balance.

To listen through headphones

Use VOLUME to reduce the volume level, and connect the headphones.

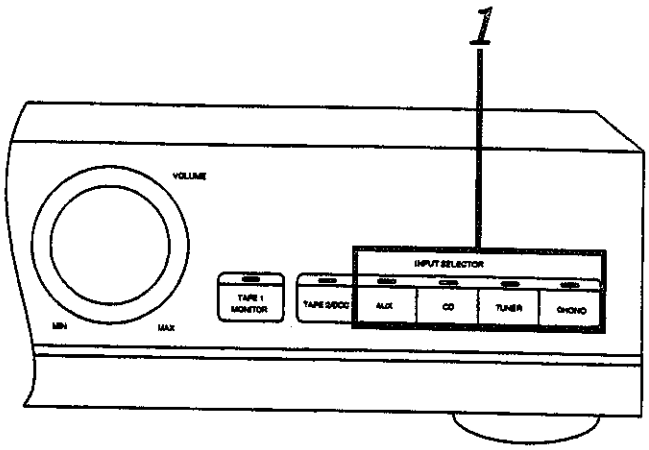
If sound from speakers is not wanted, press SPEAKERS (A) and/or (B) to turn off the speaker select indicators.

Note

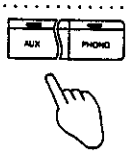
Avoid listening for prolonged periods of time to prevent hearing damage.

To record from compact discs, etc.

It is possible to record from units which are connected to the rear "AUX", "CD", "TUNER" or "PHONO" terminals to cassette tape decks or DCC decks which are connected to the "TAPE 1" or "TAPE 2/DCC" terminals.



Refer to the operating instructions for the tape deck or DCC for detailed adjustment of the recording level, etc..

1 

Select the desired source to be recorded.

AUX: To record from equipment connected to the "AUX" terminals.
CD: To record from compact discs.
TUNER: To record from radio broadcasts.
PHONO: To record from phono discs.

2 **Begin recording on tape deck.**

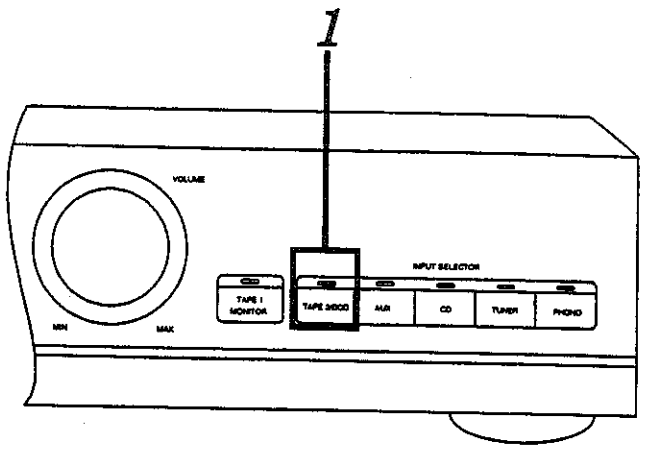
3 **Begin the source to be recorded.**

Note

If recording to both decks simultaneously, do not press TAPE 1 MONITOR. (If this button is pressed, it will not be possible to record to the deck which is connected to the "TAPE 2/DCC" terminals.)

Tape-to-tape recording

It is possible to record from tape deck 2 (the cassette tape deck or DCC deck which is connected to the "TAPE 2/DCC" terminals) to tape deck 1 (the cassette tape deck which is connected to the "TAPE 1" terminals).



Refer to the operating instructions for the tape deck for detailed adjustment of the recording level, etc..

1

Press TAPE 2/DCC.

2 **Begin recording on tape deck 1.**

3 **Begin tape playback on tape deck 2.**

For your reference

When recording from tape deck 1 to tape deck 2, press TAPE 1 MONITOR in step 1 above, and then start recording on tape 2 and begin playback on tape 1.
At this time, make sure that the input selector is set to a position other than "TAPE 2/DCC". (This is because monitoring of the unit connected to the "TAPE 2/DCC" terminals is not possible.)

To check the sound recorded while recording is being made

If a cassette tape deck with 3 heads is connected to the "TAPE 1" terminals, it is possible to check the sound being recorded onto the tape.

Press TAPE 1 MONITOR (indicator will illuminate.) on this unit and set the monitor button on the tape deck to "TAPE".

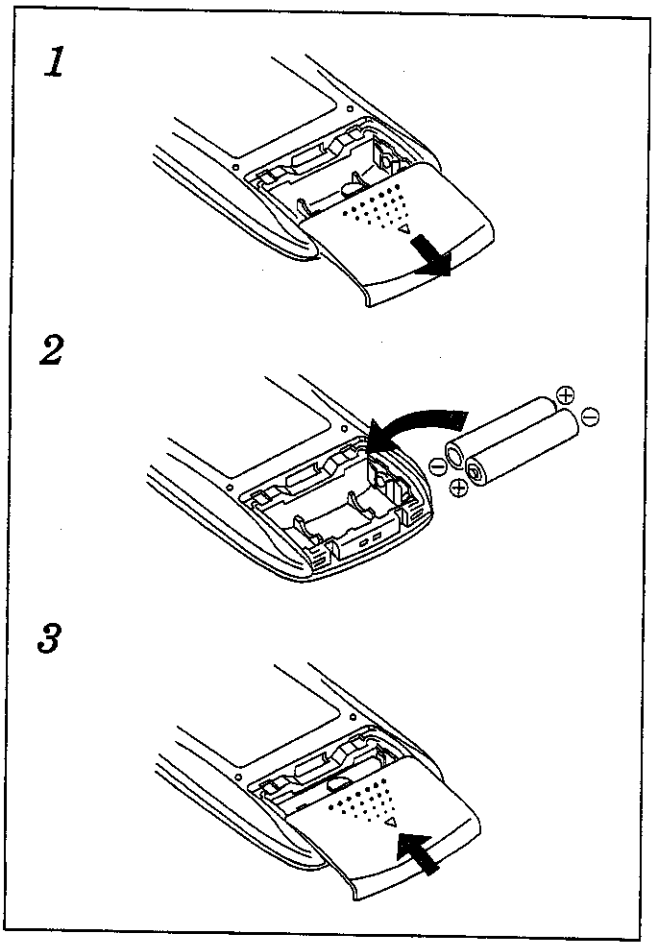
Press TAPE 1 MONITOR once again to turn it off.

Concerning the remote control

This remote control transmitter can be used to operate other units manufactured by Technics in addition to this amplifier, including CD players (or CD changers), cassette decks, DCC decks, or tuners.
For detailed information concerning operation steps, etc., please refer to the appropriate page for each unit and the respective operating instructions.

NOTE:
Face this remote control transmitter toward the main unit to operate the main unit or other units which are connected to the main unit by means of a remote control cable.
To operate any other unit with a remote control sensor, face this remote control transmitter toward that unit.

Battery installation



1 Open the cover.
Slide the cover in the direction of the arrow until it comes off completely.

2 Insert the batteries in the correct direction (⊕, ⊖).

3 Close the cover.

Use of batteries

- Do not mix old and new batteries, or batteries of different types (carbon and alkaline, etc.).
- Never subject batteries to excessive heat or flame; do not attempt to disassemble them; and be sure they are not short-circulted.
- If you will not use the remote control for a long period of time, remove the batteries and store them in a cool, dark place.
- Do not attempt to recharge alkaline or carbon batteries.

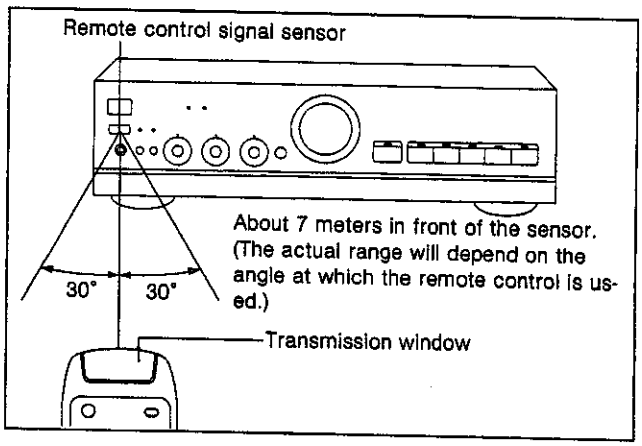
Battery life

Battery life is about one year.

The batteries should be replaced if the system fails to respond to commands from the remote control transmitter even when held close to the remote control signal sensor.

When you need to replace these batteries
Use two UM-4 "AAA", IEC R03 (1.5 V) or equivalent batteries.

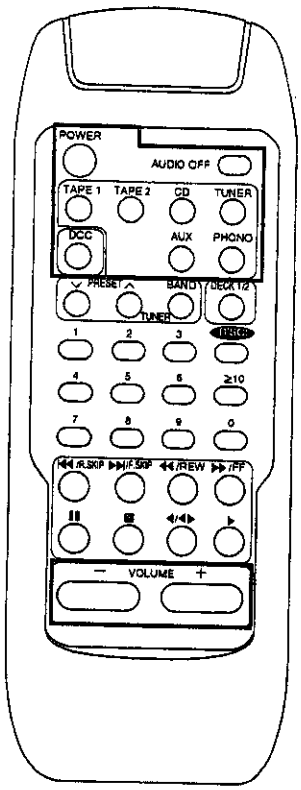
Correct method of use


Remote control signal sensor
About 7 meters in front of the sensor. (The actual range will depend on the angle at which the remote control is used.)
30°
30°
Transmission window

- Aim the remote control's transmission window toward the unit's sensor. Avoid any obstacles.
- Be sure the transmission window and the unit's sensor are free from dust. Excessive dust might affect performance.
- Do not expose the remote control signal sensor to direct sunlight or to the bright light of an inverter fluorescent light.

Remote control operation

To operate the amplifier



To turn the unit ON/OFF

POWER ○

To change the input source

TAPE 1 ○ TAPE 2 ○ CD ○ TUNER ○
DCC ○ AUX ○ PHONO ○

If either TAPE 2 or DCC is pressed, only the "TAPE 2/DCC" input indicator will illuminate in both cases.

The tape monitoring function of the amplifier will switch on when TAPE 1 is pressed.
The monitoring function will then be automatically canceled when a button other than TAPE 1 is pressed.

To adjust the volume level

− VOLUME + ○ ○

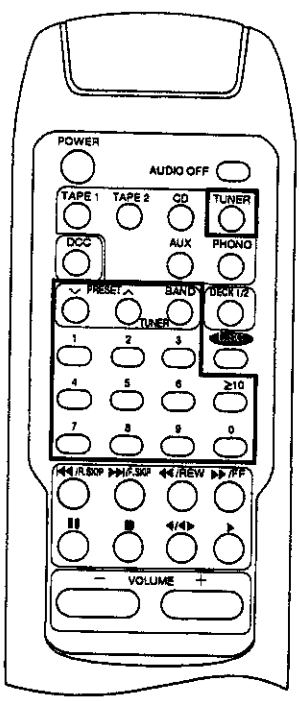
If your system unit is equipped with the remote control sensor

To turn the system OFF

AUDIO OFF ○

(This may not be possible with some models.)

To operate a tuner



To switch the remote control transmitter to tuner operation mode

TUNER ○ The input source for the amplifier will switch to the tuner, and operation of the buttons listed below will be possible.

The power supply of the tuner can be turned on by pressing this button for approximately 2 seconds. (This may not be possible with some models.)

To select the desired channel sequentialy

∨ PRESET ∧ ○ ○

To select the desired channel directly

1 ○ 2 ○ 3 ○
4 ○ 5 ○ 6 ○ ≥10 ○
7 ○ 8 ○ 9 ○ 0 ○

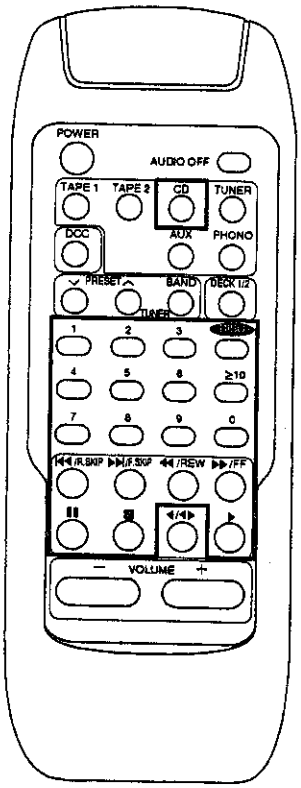
(Example: Channel 1)
1 ○

(Example: Channel 10)
≥10 ○ ➡ 1 ○ ➡ 0 ○

To select the desired band

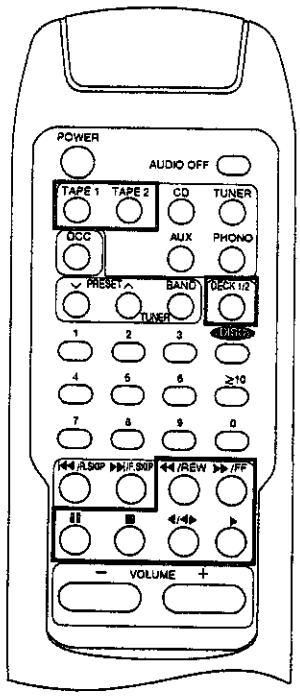
BAND ○ The band changes each time the button is pressed.

To operate a CD player (or CD changer)



To switch the remote control transmitter to CD operation mode	CD The input source for the amplifier will switch to the CD player and operation of the buttons listed below will be possible. **If your system unit is equipped with the remote control sensor** The power supply of the CD player or CD changer can be turned on by pressing this button for approximately 2 seconds. (This may not be possible with some models.)
To start play	▶
To start play from the desired track	(only for a CD changer) DISC ➡ 1 2 3 4 5 Select the desired disc. 1 2 3 DISC 4 5 6 ≥10 7 8 9 0 Select the track number. (Example: Track 1) 1 (Example: Track 10) ≥10 ➡ 1 ➡ 0
To skip a track	⏮/R.SKIP ⏭/F.SKIP (Backward) (Forward)
To search for the desired place	[In the play or pause mode] ◀◀/REW ▶▶/FF Keep pressing until the desired place is reached. (Backward) (Forward) *Note* This operation is not possible in cases where the CD player or CD changer is connected by means of a remote control cable.
To stop play temporarily	⏸ Press ▶ to resume play
To stop play	■

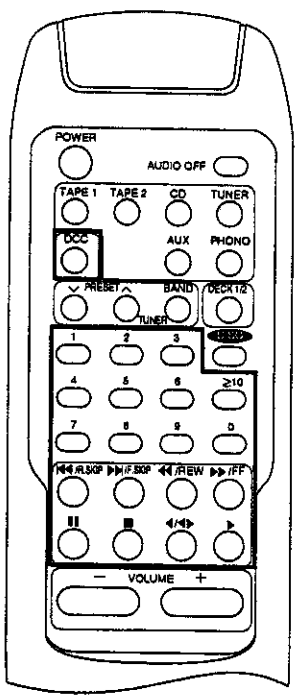
To operate a cassette deck



To switch the remote control transmitter to cassette deck operation mode	TAPE 1 or TAPE 2 — Press the button which corresponds to the cassette deck being used (TAPE 1 or TAPE 2). **If your system unit is equipped with the remote control sensor** The power supply of the cassette deck can be turned on by pressing TAPE 1 or TAPE 2 for approximately 2 seconds.(This may not be possible with some models.)
(Only when using a double cassette deck) **To select the tape deck (DECK 1/DECK 2)**	DECK 1/2 — The remote control indicator of the cassette deck will change each time the button is pressed.
To start play	◀/▶ (Reverse) (Forward)
To fast-forward or rewind the tape	/REW /FF — When using a Technics cassette deck eqipped with a TPS function, the start of a track can be found by performing this operation during playback.
To stop play temporarily	Press ◀/▶ or ▶ to resume play
To stop play	■

To operate a DCC (digital compact cassette deck)

Note The Technics RS-DC10 cannot be operated by this remote control.



To switch the remote control transmitter to DCC operation mode	DCC — The power supply of the DCC can be turned on by pressing this button for approximately 2 seconds. (This may not be possible with some models.)
To start play	▶
To select by track number	1 2 3 4 5 6 ≥10 7 8 9 0 (Example: Track 1) 1 (Example: Track 10) ≥10 → 1 → 0 This is only effective for commercially-available DCC tapes and for other DCC tapes for recording purposes which have had track numbers recorded.
To change the tape side	◀/▶
To fast-forward or rewind the tape	/REW /FF (Backward) (Forward)
To skip a track	/R.SKIP /F.SKIP (Backward) (Forward)
To stop play temporarily	Press ▶ to resume play.
To stop play	■

Technical specifications (DIN 45 500)

20 Hz–20 kHz continuous power output
both channels driven 2×70 W (8 Ω)
1 kHz continuous power output
both channels driven (THD: 1%) 2×80 W (8 Ω)
2×100 W (4 Ω)
63 Hz–12.5 kHz continuous power output
both channels driven (THD: 1%) 2×75 W (8 Ω)
2×95 W (4 Ω)
Total harmonic distortion
rated power at 20 Hz–20 kHz 0.1% (8 Ω)
Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE)
rated power 0.1% (8 Ω)
Residual hum and noise 1 mV
Damping factor 100 (8 Ω)
50 (4 Ω)
Headphones output level/impedance 540 mV/47 Ω
Load impedance
A or B 4–16 Ω
A and B 8–16 Ω
Input sensitivity/impedance
PHONO MM 2.5 mV/47 kΩ
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 150 mV/22 kΩ
Phono maximum input voltage (1 kHz, RMS)
MM 150 mV (IHF '66)
S/N (rated power, 4 Ω)
PHONO MM 76 dB (77 dB, IHF '66)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC
92 dB (95 dB, IHF '66)
S/N at –26 dB power (4 Ω)
PHONO MM 67 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 70 dB
S/N at 50 mW (4 Ω)
PHONO MM 63 dB
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC 63 dB

Frequency response
PHONO MM RIAA standard curve ±1 dB
(30 Hz–15 kHz)
TUNER, CD, AUX, TAPE 1, TAPE 2/DCC
3 Hz–60 kHz (+0, –3 dB)
+0 dB, –0.3 dB (20 Hz–20 kHz)
Tone controls
BASS 50 Hz, +10 to –10 dB
TREBLE 20 kHz, +10 to –10 dB
Output voltage
TAPE 1, TAPE 2/DCC REC OUT 150 mV
Channel balance (AUX 250 Hz–6.3 kHz) ±1 dB
Channel separation (AUX 1 kHz) 50 dB

■ GENERAL

Power consumption 190 W
Power supply AC 50 Hz/60 Hz, 230 –240 V
Dimensions (W × H × D) 430×125×310 mm
Weight 6.8 kg

Notes:
1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.
3. The specification values given have been measured while using a 240 V power supply.

Troubleshooting guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your Technics dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
Problems noted at all times		
No sound is heard when the power is switched ON.	The power cord plug is not completely inserted.	• Confirm that the power cord plug is connected completely.
	Connections to the speakers, etc. are incomplete or incorrect.	• Check to be sure that all connection wires are correctly connected.
	The input selector setting is incorrect.	• Check to be sure that the selection of the desired sound source is made correctly.
	The speaker selector is set incorrectly.	• Set it to the correct position.
	The tape monitor function is on. (TAPE 1 MONITOR indicator is illuminated)	• When listening to a source other than the tape deck (TAPE 1), press TAPE 1 MONITOR so that the indicator is switched off.
When listening to stereo sound, the sound lacks depth (i.e. thin bass, tinny sound).	One of the speakers is connected out of phase [(+)→(−), (−)→(+)].	• Reconnect the speakers maintaining proper polarity [i.e., (+)→(+), (−)→(−)].
When listening to stereo sound, the left and right sounds are reversed.	The left and right speaker connections, source connections, or graphic equalizer connections are reversed.	• Check all connections and correct them if necessary.
A low-pitched noise ("hum" or "buzz") is heard.	The power cord or a fluorescent light, etc., is near the connection wires.	• Try separating this unit as far as possible from the electric appliance.
Sound is not heard from one of the speakers.	The speaker wires are disconnected.	• Check and correct the connections of the speaker wires.
	The balance control is set too far to one side.	• Set so that sounds are heard at the center, between the speakers.
Sound stops during a performance, or no sound is heard when the power is switched ON.	The protection circuitry has functioned because the positive and negative speaker connection wires are "shorted", speakers with an impedance less than the indicated rated impedance of the amplifier are used.	• Turn the unit OFF, and, after determining and correcting the cause, turn the unit ON once again. • Use the speakers of the proper impedance rating.
While using the remote control transmitter		
The remote control transmitter does not function.	Batteries are incorrectly installed.	• Insert the batteries so that the positive (+) and negative (−) polarities are correct.
	The remote control transmitter batteries are drained.	• Replace them with new batteries.
	There is an obstruction between the remote control transmitter and this unit.	• Remove the obstruction.
	The remote control transmitter is not correctly facing this unit.	• Face the remote control transmitter correctly toward this unit.

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